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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/073,934	02/14/2002	John Turner Maxwell III	107147	6401
27074 75	590 10/04/2005		EXAM	INER
OLIFF & BERRIDGE, PLC. P.O. BOX 19928 ALEXANDRIA, VA 22320			HIRL, JO	SEPH P
			ART UNIT	PAPER NUMBER
			2129	

DATE MAILED: 10/04/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

6						
1	Application No.	Applicant(s)				
Office Action Summary	10/073,934	MAXWELL, JOHN TURNER				
omoc Action Gammary	Examiner	Art Unit				
The MAILING DATE of the	Joseph P. Hirl	2129				
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet v	vith the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D.  - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period  - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailir earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUN 136(a). In no event, however, may a will apply and will expire SIX (6) MC e. cause the application to become A	ICATION.  Treply be timely filed  NOTHS from the mailing date of this communication.				
Status	•					
1)⊠ Responsive to communication(s) filed on <u>14 F</u>	February 2002					
2a) ☐ This action is <b>FINAL</b> . 2b) ☒ This action is non-final.						
	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under						
Disposition of Claims		·				
4)☐ Claim(s) is/are pending in the applicati	on ·					
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-14</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	or election requirement.					
Application Papers	·					
9)☐ The specification is objected to by the Examine	ar.					
10)⊠ The drawing(s) filed on <u>14 February 2002</u> is/ar		chiected to by the Evaminor				
Applicant may not request that any objection to the						
Replacement drawing sheet(s) including the correct		7 7				
11)☐ The oath or declaration is objected to by the E						
Priority under 35 U.S.C. § 119	•					
12)  Acknowledgment is made of a claim for foreign	n priority under 25 H C C	S 440(a) (d) a= (5)				
a) ☐ All b) ☐ Some * c) ☐ None of:	i priority under 55 0.5.C.	9 119(a)-(d) or (i).				
1. Certified copies of the priority document	ts have been received					
2. Certified copies of the priority document		Application No.				
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Burea		· · · · · · · · · · · · · · · · · · ·				
* See the attached detailed Office action for a list	* * * * * * * * * * * * * * * * * * * *	t received.				
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Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview	Summary (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No	(s)/Mail Date				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>02/11/02</u> .	5)	Informal Patent Application (PTO-152)				
S. Patent and Trademark Office PTOL-326 (Rev. 7-05) Office A	ction Summary	Part of Paper No./Mail Date 20050926				

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#### **DETAILED ACTION**

1. Claims 1-14 are pending in this application.

# Claim Rejections - 35 USC § 101

- 2. 35 U.S.C. 101 reads as follows:
  - Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.
- 3. Claims 1-10 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. The language of the claim raises a question as to whether the claim is directed merely to an abstract idea that is not tied to a technological art, environment or machine which would result in a practical application producing a concrete, useful, and tangible result to form the basis of statutory subject matter under 35 U.S.C. 101. This rejection will be withdrawn when the term "computerized" or equivalent is inserted before the term "method" in the preamble of claim 1.
- 4. Claims 1-14 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. If the "acts" of a claimed process manipulate only numbers, abstract concepts or ideas, the "acts" are not being applied to appropriate subject matter. Schrader, 22 F.3d at 294-95, 30 USPQ2d at 1458-59. Thus, a process consisting solely of mathematical operations, i.e., converting one set of

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numbers into another set of numbers, does not manipulate appropriate subject matter and thus cannot constitute a statutory process (MPEP 2106 IV B 1).

# Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 6. Claims 1-14 are rejected under 35 U.S.C. 102(b) as being anticipated by Christianson et al (U.S. Patent 6,102,969, referred to as **Christianson**).

#### **Claims 1, 11**

Christianson anticipates generating a representation comprising a plurality of contexted disjunctions (**Christianson**, c 7:41-45; Examiner's Note (EN): network information sources are contexted disjunctions related to a user query); conjoining all of the contexted disjunctions to form a conjunction of contexted disjunctions (**Christianson**, c 7:41-45; EN: rank the network information sources is equivalent with conjoining contexted disjunctions); and storing the representation as the conjunction of contexted disjunctions (**Christianson**, c 3:26-28; EN: which are performed by a computer).

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## **Claims 2, 12**

Christianson anticipates eliminating nogoods by refining the representation until a result of the conjunction of contexted disjunctions is backtrack-free or the result of the conjunction of contexted disjunctions reduces to false (**Christianson**, c 3:47-54; EN: achieving backtract free is equivalent to eliminating nogoods).

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#### Claims 3, 6, 9

Christianson anticipates the refining the representation is carried out without reordering the disjunctions (**Christianson**, c 22:63-67: EN: alternatives are listed).

#### Claims 4, 7, 10

Christianson anticipates the refining the representation is carried out without merging the disjunctions (**Christianson**, c 22:63-67: EN: alternatives are listed).

#### Claims 5, 13

Christianson anticipates transforming the representation so that the conjunction of contexted disjunctions is backtrack-free (**Christianson**, c 3:47-54; listing is transformation).

#### Claims 8, 14

Christianson anticipates transforming the representation so that choosing any disjunct from each of the disjunctions results in a valid solution (**Christianson**, c 3:47-54; c 22:63-67; EN: choosing any implies choosing one which is a Markush type claim and therefore selecting one solution anticipates this claim).

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## **Examination Considerations**

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- 7. The claims and only the claims form the metes and bounds of the invention. "Office personnel are to give the claims their broadest reasonable interpretation in light of the supporting disclosure. *In re Morris,* 127 F.3d 1048, 1054-55, 44USPQ2d 1023, 1027-28 (Fed. Cir. 1997). Limitations appearing in the specification but not recited in the claim are not read into the claim. *In re Prater,* 415 F.2d, 1393, 1404-05, 162 USPQ 541, 550-551 (CCPA 1969)" (MPEP p 2100-8, c 2, I 45-48; p 2100-9, c 1, I 1-4). The Examiner has full latitude to interpret each claim in the broadest reasonable sense. Examiner will reference prior art using terminology familiar to one of ordinary skill in the art. Such an approach is broad in concept and can be either explicit or implicit in meaning.
- 8. Examiner's Notes are provided with the cited references to prior art to assist the applicant to better understand the nature of the prior art, application of such prior art and, as appropriate, to further indicate other prior art that maybe applied in other office actions. Such comments are entirely consistent with the intent and spirit of compact prosecution. However, and unless otherwise stated, the Examiner's Notes are not prior art but a link to prior art that one of ordinary skill in the art would find inherently appropriate.
- 9. Unless otherwise annotated, Examiner's statements are to be interpreted in reference to that of one of ordinary skill in the art. Statements made in reference to the condition of the disclosure constitute, on the face of it, the basis and such would be

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obvious to one of ordinary skill in the art, establishing thereby an inherent prima facie statement.

10. Examiner's Opinion: paras 7-9 apply. The Examiner has full latitude to interpret each claim in the broadest reasonable sense.

#### Conclusion

- 11. The prior art of record and not relied upon is considered pertinent to applicant's disclosure.
  - Maxwell, U.S. Patent 5,438,511
  - Christianson et al, U.S. Patent 6,085,186
  - Natarajan, U.S. Patent 5,228,115
  - Provan et al, Model-Based Object Recognition : A Truth Maintenance

    Approach
- 12. Claims 1-14 are rejected.

# Correspondence Information

Any inquiry concerning this information or related to the subject disclosure should be directed to the Examiner, Joseph P. Hirl, whose telephone number is (571) 272-3685. The Examiner can be reached on Monday – Thursday from 6:00 a.m. to 4:30 p.m.

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If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Anthony Knight can be reached at (571) 272-3687.

Any response to this office action should be mailed to:

Commissioner of Patents and Trademarks,

Washington, D. C. 20231;

### Hand delivered to:

Receptionist,

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401 Dulany Street,

Alexandria, Virginia 22313,

(located on the first floor of the south side of the Randolph Building); or faxed to:

(571) 273-8300 (for formal communications intended for entry.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only.

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Business Center (EBC) at 866-217-9197 (toll free).

Joseph P. Hirl

Primary Examiner September 26, 2005